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## High levels of intracellular bombesin characterize human small-cell lung carcinoma.

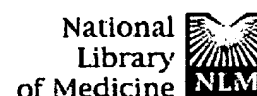
Moody TW, Pert CB, Gazdar AF, Carney DN, Minna JD.

"Small cells" or "oat cells" characterize a virulent form of lung cancer and share many biochemical properties with peptide-secreting neurones. The neuropeptide bombesin is present in all small-cell lines examined, but not in other lung cancer cell lines, suggesting that bombesinergic precursor cells in lung may give rise to this disease.

PMID: 6272398 [PubMed - indexed for MEDLINE]

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☐ 1: Int J Immunopharmacol 1992 Apr;14  
(3):465-72

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## Targeting growth factor receptors with fusion toxins.

Kreitman RJ, FitzGerald D, Pastan I.

Laboratory of Molecular Biology, National Cancer Institute, National Institutes of Health, Bethesda, MD 20892.

Recombinant toxins which bind to growth factor receptors have been prepared and used to kill cells responsible for malignant or autoimmune disease. Our strategy has been to genetically fuse ligands to different forms of Pseudomonas exotoxin which due to mutations or deletions do not bind to normal cells. The resulting recombinant chimeric toxins, in concentrations often less than 1 ng/ml, selectively kill cells expressing the appropriate growth factor receptor. The ligand may be a growth factor, such as transforming growth factor alpha (TGF alpha), interleukin 6 (IL6) or interleukin 2 (IL2), or single chain antigen binding proteins, such as the variable heavy and light regions of the monoclonal antibody anti-Tac. These chimeric toxins kill not only established cell lines but also fresh tumor cells from patients and display anti-tumor activity toward human malignant tumors in nude mice. While clinical trials are beginning with some of these agents, work continues to improve the effectiveness of recombinant chimeric toxins, and to widen the scope of disorders which might be treated by this approach.

Publication Types:

- Review
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## A chimeric IL-2/Ig molecule possesses the functional activity of both proteins.

**Landolfi NF.**

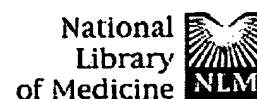
Protein Design Labs, Inc., Mountain View, CA 94043.

An expression vector (pIL-2/IgG1) was constructed with the coding sequence of human IL-2 inserted upstream of the four exons (CH1, hinge, CH2, and CH3) that encode the human IgG1 H chain constant region. Introduction of this vector into a nonsecreting murine myeloma cell line resulted in the production of a chimeric molecule (IL-2/IgG1) consisting of IL-2 attached to the three Ig constant region domains. This molecule was secreted by the transfectant as a homodimer. Functional characterization revealed that the IL-2/IgG1 chimeric molecule exhibited the binding and proliferation-mediating activities of IL-2. On a per molecule basis, IL-2/IgG1 was indistinguishable from human rIL-2 in the ability to induce the proliferation of an IL-2-dependent T cell line. This chimeric molecule also possesses Ig effector function, in that it can mediate the specific lysis of IL-2R-positive cells in the presence of complement. These results demonstrate that it is possible to maintain Ig effector function in molecules ("immunoligands") in which the binding specificity is conferred not by Ig variable regions, but rather, by a ligand of choice.

PMID: 1988502 [PubMed - indexed for MEDLINE]

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☐ 1: Cancer Immunol Immunother 1993 Nov;37  
(6):400-7

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## Local antitumour treatment in carcinoma patients with bispecific-monoclonal-antibody-redirected T cells.

Kroesen BJ, ter Haar A, Spakman H, Willemse P, Sleijfer DT, de Vries EG, Mulder NH, Berendsen HH, Limburg PC, The TH, et al.

Department of Clinical Immunology, University Hospital Groningen, The Netherlands.

In a pilot clinical study carcinoma patients with malignant ascites or pleural exudates have been treated locally with autologous lymphocytes activated ex vivo and redirected towards tumour cells with bispecific monoclonal antibodies. BIS-1, the bispecific monoclonal antibody used in this study, combines specificity against a tumour-associated antigen, AMOC-31, present on carcinomas, with a specificity against the CD3 complex on T lymphocytes. Patients selected for treatment had malignant pleural or peritoneal effusions. Treatment consisted of isolating autologous peripheral blood lymphocytes, ex vivo activation, incubation with bispecific monoclonal antibodies and injection at the effusion site of these BIS-1-redredirected lymphocytes. To evaluate the effects of the bispecific monoclonal antibody, five patients received treatments with activated lymphocytes without bispecific antibodies. Effusion samples taken before and at various times after treatment were analysed by immunocytology and for the presence of the soluble factors carcinoembryonic antigen (CEA), interleukin-6 (IL-6), tumour necrosis factor (TNF), C-reactive protein and soluble CD8. In this way both immune activation and anti-tumour activity could be monitored. Conjugate formation between tumour cells and activated lymphocytes was seen as soon as 4 h after injection of BIS-1-redredirected activated lymphocytes, followed by a disappearance or reduction of tumour cells after 24-48 h. In parallel with this, the soluble tumour marker CEA decreased in the effusion fluid following injection with the BIS-1-redredirected lymphocytes. Furthermore, a steep increase in local granulocyte numbers was observed in the effusion fluid, which reached a maximum 24-48 h after the start of the treatment. Also levels of IL-6 and TNF were greatly elevated. The data suggest that the treatment induces both antitumour activity and a strong local inflammatory reaction. This is accompanied by no or only minor local and systemic toxicity, i.e. mild

fever, which disappeared as the local inflammatory reaction diminished 48-72 h after treatment.

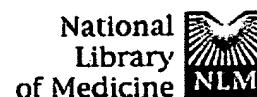
PMID: 7902211 [PubMed - indexed for MEDLINE]

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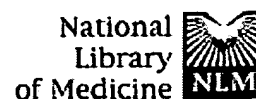
### Heterodimeric complex formation with CD8 and TCR by bispecific antibody sustains paracrine IL-2-dependent growth of CD3+ CD8+ T cells.

De Lau WB, Boom SE, Heije K, Griffioen AW, Braakman E, Bolhuis RL, Tax WJ, Clevers H, Bast BJ.

Department of Clinical Immunology, University Hospital, Utrecht, The Netherlands.

During physiologic activation of mature CD8+ T cells, TCR and CD8 bind to the same Ag-complexed MHC class I molecule. Thereby, close proximity is induced between CD8 and the TCR/CD3 complex. During this engagement, CD8 may deliver TCR-independent signals via its associated protein tyrosine kinase, p56lck. We studied the potential biologic effects of close association between CD8 and TCR/CD3 complexes by using a bispecific antibody (bsAb) directed against both TCR and CD8 molecules. This hybrid hybridoma (quadroma)-produced bsAb binds as a monomeric molecule to CD3+ CD8+ but not CD3+ CD4+ T cells. The bsAb proved capable of inducing the cytotoxic effector function of cloned CD3+ CD8+ T cells but not of CD3+ CD4+ T cells. When the bsAb was presented to resting T cells by monocytes, proliferation of the CD3+ CD4+ but not the CD3+ CD8+ subset of T lymphocytes was induced. Parental anti-TCR antibody induced vigorous growth of cells of both subsets. Essentially identical results were obtained when bsAb was presented in an immobilized fashion. The unresponsiveness of the CD3+ CD8+ T cells with respect to mitogenesis could be restored by exogenous rIL-2. The data suggest that bsAb-induced activation differs from activation by monospecific anti-TCR antibody. The former appears to more closely mimic physiologic Ag-induced signaling, because it leads to a similar paracrine IL-2-dependent growth pattern. The bsAb may, therefore, be instrumental in studying T cell signaling pathways, in particular the role of CD8-associated p56lck therein.

PMID: 1387662 [PubMed - indexed for MEDLINE]



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☐ 1: Br J Cancer 1996 Sep;74(6):853-62Related Articles, <sup>NEW</sup> Books, LinkOut

## Targeted inhibition of tumour cell growth by a bispecific single-chain toxin containing an antibody domain and TGF alpha.

Schmidt M, Wels W.

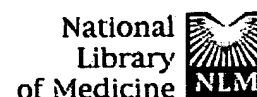
Institute for Experimental Cancer Research, Freiburg, Germany.

Overexpression of the epidermal growth factor receptor (EGFR) and ErbB-2 has been observed in a variety of human tumours, making these receptors promising targets for directed tumour therapy. Since many tumour cells express both ErbB-2 and EGFR and these receptors synergise in cellular transformation, therapeutic reagents simultaneously binding to ErbB-2 and EGFR might offer advantages for tumour therapy. We have previously described the potent anti-tumoral activity of a bispecific antibody toxin that contains ErbB-2- and EGFR-specific single-chain Fv (scFv) domains. Here we report the construction and functional characterisation of a novel bispecific recombinant toxin, scFv(FRP5)-TGF alpha-ETA. The fusion protein consists of the antigen-binding domain of the ErbB-2-specific MAb, FRP5, and the natural EGFR ligand, TGF alpha, inserted at different positions in truncated Pseudomonas exotoxin A. ScFv(FRP5)-TGF alpha-ETA protein displayed binding to EGFR and ErbB-2, thereby inducing activation of the receptors, which was dependent on the cellular context and the level of EGFR and ErbB-2 expression. The bispecific molecule was cytotoxic in vitro for tumour cells expressing various levels of the target receptors. In vivo scFv(FRP5)-TGF alpha-ETA potently inhibited the growth of established A431 tumour xenografts in nude mice.

PMID: 8826849 [PubMed - indexed for MEDLINE]

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☐ 1: J Immunol 1998 Feb 15;160(4):1677-86 Related Articles, **NEW Books**, LinkOutFREE full text article at  
[www.jimmunol.org](http://www.jimmunol.org)**Bispecific molecules directed to the Fc receptor for IgA (Fc alpha RI, CD89) and tumor antigens efficiently promote cell-mediated cytotoxicity of tumor targets in whole blood.****Deo YM, Sundarapandiyan K, Keler T, Wallace PK, Graziano RF.**

Medarex, Inc., Annandale, NJ 08801, USA. yashdeo@injersey.com

The FcR for IgA (Fc alpha RI, CD89) is primarily expressed on cytotoxic immune effector cells. By chemically cross-linking F(ab') fragments of the FcR for IgA (Fc alpha RI)-specific mAb (A77) with tumor Ag-specific mAb (anti-HER2/neu and anti-epidermal growth factor receptor), we have developed bispecific molecules (BSM) that simultaneously bind to respective tumor Ags and Fc alpha RI-expressing effector cells in whole blood. These BSM mediated up to 55% of specific lysis of appropriate tumor Ag-expressing target cells (from a variety of tumors) with purified polymorphonuclear leukocytes, monocytes, or whole blood effector cells without preactivation with exogenous cytokines. To our knowledge, this is the first demonstration of Ab-dependent cell-mediated cytotoxic activity via Fc alpha RI in whole blood. Also, monocyte-derived macrophages mediated phagocytosis of HER2/neu-expressing tumor cells (>95% tumor cell loss). These BSM-mediated cytotoxic activities were completely inhibited by F(ab')<sub>2</sub> of A77, demonstrating the specific role of Fc alpha RI as a trigger molecule. Furthermore, the binding of these BSM to monocytes or polymorphonuclear leukocytes in whole blood did not induce modulation of Fc alpha RI in the absence of the target Ag. Therefore, immune effector cells may be "armed" with Fc alpha RI-directed BSM in whole blood. These Fc alpha RI-directed BSM may offer new treatment options for various malignancies and other disease conditions.

PMID: 9469424 [PubMed - indexed for MEDLINE]



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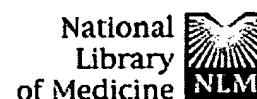


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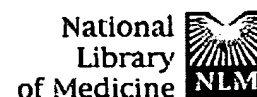
## Use of anti-CD3 and anti-CD16 bispecific monoclonal antibodies for the targeting of T and NK cells against tumor cells.

**Ferrini S, Cambiaggi A, Sforzini S, Canevari S, Mezzanzanica D, Colnaghi MI, Moretta L.**

Istituto Nazionale per la Ricerca sul Cancro, Genova, Italy.

To target T lymphocytes against EGF-R+ tumors, we constructed anti-CD3/anti-EGF-R bimAbs either by the generation of a hybrid hybridoma (quadroma) or by a chemical cross-linking method. Analysis of the in vitro functional activity of these two different constructs indicated that the quadroma-secreted bimAb was more efficient in targeting the CD3+8+ clones against EGF-R+ target cells with respect to the bimAb produced by chemical method. In addition, the quadroma-produced bimAb is able to induce cytotoxicity of EGF-R+ tumor cell lines of PHA-induced lymphoblasts that had been expanded in IL-2-containing medium, whereas tumor cells lacking expression of EGF-R were not lysed. Resting PBL targeted by the bimAb did not display significant cytotoxicity against the relevant tumor. An anti-CD16 hybridoma (IgG1) was fused with an anti-folate-binding protein hybrid (IgG2a) to construct bimAbs to target NK cells against NK-resistant ovarian carcinomas. The hybrid IgG1/IgG2a bimAb triggered the specific lysis of relevant target cells by resting NK cells, but it was ineffective when CD8+TCR alpha/beta+ cultured cell populations were used as effectors. Only marginal increases of cytolytic activity could be induced by the bimAb when IL-2-activated PBL (i.e., LAK cells) were used as effectors due to the high cytolytic activity of these cells against the relevant tumors in the absence of bimAb. The possible use of anti-CD16 or anti-CD3 bimAbs for the development of different cellular immunotherapy strategies against cancer is discussed.

PMID: 8402715 [PubMed - indexed for MEDLINE]



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## Lysis of small cell carcinoma of the lung (SCCL) cells by cytokine-activated monocytes and natural killer cells in the presence of bispecific immunoconjugates containing a gastrin-releasing peptide (GRP) analog or a GRP antagonist.

Chen J, Zhou JH, Mokotoff M, Fanger MW, Ball ED.

Division of Hematology/Bone Marrow Transplantation, University of Pittsburgh Medical Center, PA 15213, USA.

Lung cancer remains the leading cause of cancer deaths in the United States. We have developed a new immunotherapeutic approach to the treatment of small cell carcinoma of the lung (SCCL) by targeting the gastrin-releasing peptide receptor (GRP-R) expressed on the surface of these cells. Bispecific immunoconjugates were constructed by chemical fusion of a GRP analog or a GRP antagonist with monoclonal antibodies directed to the cytotoxic trigger molecules Fc gamma RI and Fc gamma RIII on various immune effector cells. We demonstrated that these bispecific immunoconjugates bound to target SCCL cells in a dose-dependent manner. In the presence of these immunoconjugates, more than 80% of SCCL cells were lysed by cytokine-activated monocytes and natural killer (NK) cells measured by a <sup>51</sup>Cr-release assay. These data indicate that bifunctional antibodies targeting GRP may have clinical use.

PMID: 8581371 [PubMed - indexed for MEDLINE]



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☐ 1: J Biol Chem 1994 Feb 18;269(7):4979-85

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## Functional properties of antibody insulin-like growth factor fusion proteins.

**Shin SU, Friden P, Moran M, Morrison SL.**

Alkermes, Inc., Cambridge, Massachusetts 02139.

Genetic engineering and expression techniques have been used to produce antibody growth factor fusion proteins. Insulin-like growth factors (IGFs) 1 and 2 have been fused to mouse-human chimeric IgG3 at the end of CH1, immediately after the hinge, and at the end of CH3. Fusion heavy chains of the expected molecular weight were expressed, assembled with a co-expressed light chain, and secreted. The resulting molecules continued to bind antigen; they also bound the growth factor receptors, albeit with decreased affinity. The molecule with IGF1 attached after CH3 (CH3-IGF1) had reduced ability to carry out complement-mediated cytolysis. In contrast the molecule with IGF2 attached after CH3 (CH3-IGF2) showed an approximately 50-fold increase in its ability to effect complement-mediated cytolysis and so should be an effective cytolytic agent. Both CH3-IGF1 and CH3-IGF2 bound Fc gamma RI with affinity similar to that of IgG3. The growth factor fusion proteins showed small but significant uptake into the brain parenchyma.

PMID: 8106473 [PubMed - indexed for MEDLINE]



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L5 35 L3 NOT PY=>1995

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AN 95383036 MEDLINE

DN 95383036 PubMed ID: 7654439

TI Induction of tumour cell lysis by a bispecific antibody  
recognising epidermal growth factor receptor (EGFR)  
and CD3.

AU Knuth A; Bernhard H; Jager B; Wolfel T; Kurbach J; Jaggle C; Strittmatter  
W; Meyer zum Buschenfelde K H

CS II Medizinische Klinik, Hamatologie/Oncologie, Krankenhaus Nordwest,  
Frankfurt a. Main, Germany.

SO EUROPEAN JOURNAL OF CANCER, (1994) 30A (8) 1103-7.

Journal code: ARV: 9005373. ISSN: 0959-8049.

ENGLAND: United Kingdom

DT Journal: Article; (JOURNAL ARTICLE)

LA English

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Last Updated on STN: 20000303

Entered Medline: 19951005

L5 ANSWER 2 OF 35 MEDLINE

AN 94075058 MEDLINE

DN 94075058 PubMed ID: 8253530

TI Targeting of T lymphocytes against EGF-receptor+ tumor cells by  
bispecific monoclonal antibodies: requirement of CD3

molecule cross-linking for T-cell activation.

AU Fortini S; Cambiaggi A; Sforzini S; Marciano S; Canevari S; Mezzanzanica  
D; Colnaghi M I; Grossi C E; Moretta L

CS Istituto Nazionale per la Ricerca sul Cancro, Genoa, Italy.  
SO INTERNATIONAL JOURNAL OF CANCER, (1993 Dec 2) 55 (6) 931-7.  
Journal code: GQU: 0042124. ISSN: 0020-7136.

CY United States

DT Journal: Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 199401

ED Entered STN: 19940203

Last Updated on STN: 20000303

Entered Medline: 19940110

L5 ANSWER 3 OF 35 MEDLINE

AN 93107863 MEDLINE

DN 93107863 PubMed ID: 1335026

TI The efficiency of cell targeting by recombinant retroviruses depends on  
the nature of the receptor and the composition of the artificial  
cell-virus linker.

AU Etienne-Julian M; Roux P; Carillo S; Jeanteur P; Piechaczyk M

CS Laboratoire de Biologie Moleculaire, URA CNRS 1191 Genetique Moleculaire,  
Universite Montpellier II Sciences et Techniques du Languedoc, France.

SO JOURNAL OF GENERAL VIROLOGY, (1992 Dec) 73 ( Pt 12) 3251-5.

Journal code: I9B: 0077340. ISSN: 0022-1317.

ENGLAND: United Kingdom

DT Journal: Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 199301

ED Entered STN: 19930212

Last Updated on STN: 20000303

Entered Medline: 19930125

L5 ANSWER 4 OF 35 MEDLINE

AN 93090873 MEDLINE

DN 93090873 PubMed ID: 1457511

TI Biology and therapy with biologic agents in gynecologic cancer.

AU Wiener J R; Berchuck A; Bast R C Jr

CS Department of Obstetrics and Gynecology, Duke University Medical Center,  
Durham, NC 27710.

SO CURRENT OPINION IN ONCOLOGY, (1992 Oct) 4 (5) 946-54. Ref: 52

Journal code: ALV: 9007265. ISSN: 1040-8746.

DT Journal: Article; (JOURNAL ARTICLE)

LA English

FS Priority Journals

EM 199301

ED Entered STN: 19930129

Last Updated on STN: 19930129

Entered Medline: 19930108

L5 ANSWER 5 OF 35 MEDLINE

AN 92113462 MEDLINE

DN 92113462 PubMed ID: 1346155

TI Development of humanized bispecific antibodies  
reactive with cytotoxic lymphocytes and tumor cells overexpressing the  
HER2 protooncogene.

AU Shalaby M R; Shepard H M; Presta L; Rodrigues M L; Beverley P C; Feldmann  
M; Carter P

CS Department of Cell Biology, Genentech, Inc., South San Francisco,  
California 94080.

SO JOURNAL OF EXPERIMENTAL MEDICINE, (1992 Jan 1) 175 (1) 217-25.

Journal code: I2V: 2985109R. ISSN: 0022-1007.

CY	United States
DT	Journal; Article: (JOURNAL ARTICLE)
LA	English
FS	Priority Journals
EM	199202
ED	Entered STN: 19920308 Last Updated on STN: 20000303 Entered Medline: 19920214
L5	ANSWER 6 OF 35 CAPLUS COPYRIGHT 2002 ACS
AN	1994:653350 CAPLUS
DN	121:253350
TI	Induction of tumor cell lysis by a bispecific antibody recognizing epidermal growth factor receptor (EGFR) and CD3
AU	Knuth, A.; Bernhard, H.; Jaeger, E.; Woelfel, T.; Karbach, J.; Jaeggli, C.; Strittmatter, W.; Meyer zum Bueschenfelde, K.-H.
CS	Germany
SO	Eur. J. Cancer, Part A (1994), 30A(8), 1103-7
CO	CODEN: EJCTEA
DT	Journal
LA	English
L5	ANSWER 7 OF 35 CAPLUS COPYRIGHT 2002 ACS
AN	1994:450110 CAPLUS
DN	121:50110
TI	Method for preventing or treating liver disease
IN	Schwall, Ralph
PA	Genentech, Inc., USA
SO	PCT Int. Appl., 34 pp. CODEN: PIXXD2
DT	Patent
LA	English
FAM.CNT.1	
PATENT NO.	KIND DATE APPLICATION NO. DATE
WO 9409809	A1 19940511 WO 1993-US9885 19931014
W:	AU, CA, JP, NZ
RW:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
AU 9434034	A1 19940524 AU 1994-54054 19931014
US 1992-968784	19921030
WO 1993-US9885	19931014
L5	ANSWER 8 OF 35 CAPLUS COPYRIGHT 2002 ACS
AN	1994:432944 CAPLUS
DN	121:32944
TI	The LFA-1/ICAM cell adhesion pathway is involved in tumor-cell lysis mediated by bispecific monoclonal-antibody-targeted T lymphocytes
AU	Ferrini, Silvano; Sforzini, Sabrina; Cambiaggi, Anna; Poggi, Alessandro; Meazza, Raffaella; Canevari, Silvana; Colnaghi, Maria Ines; Moretta, Lorenzo
CS	Ist. Naz. per la Ric. sul Cancro, Genoa, 16132/10, Italy
SO	Int. J. Cancer (1994), 56(6), 846-52
CO	CODEN: IJCNAW; ISSN: 0020-7136
DT	Journal
LA	English
L5	ANSWER 9 OF 35 CAPLUS COPYRIGHT 2002 ACS
AN	1994:214901 CAPLUS
DN	120:214901
TI	Targeting of T lymphocytes against EGF-receptor+ tumor cells by bispecific monoclonal antibodies: requirement of CD3 molecule crosslinking for T-cell activation
AU	Ferrini, Silvano; Sforzini, Sabrina; Cambiaggi, Anna; Poggi, Alessandro; Meazza, Raffaella; Canevari, Silvana; Colnaghi, Maria Ines; Moretta, Lorenzo
CS	Ist. Naz. per la Ric. sul Cancro, Genoa, 16132/10, Italy
SO	Int. J. Cancer (1994), 56(6), 846-52
CO	CODEN: IJCNAW; ISSN: 0020-7136
DT	Journal
LA	English
L5	ANSWER 10 OF 35 CAPLUS COPYRIGHT 2002 ACS
AN	1993:167190 CAPLUS
DN	118:167190
TI	Development of humanized bispecific antibodies reactive with cytotoxic lymphocytes and tumor cells overexpressing the HER2 protooncogene
AU	Shalaby, M. Refaat; Shepard, H. Michael; Presta, Len; Rodrigues, Maria L.; Beverley, Peter C. L.; Feldmann, Marc; Carter, Paul
CS	Dep. Cell Biol., Genentech, Inc., South San Francisco, CA, 94080, USA
SO	J. Exp. Med. (1992), 175(1), 217-25
CO	CODEN: JEMEAV; ISSN: 0022-1007
DT	Journal
LA	English
L5	ANSWER 11 OF 35 CAPLUS COPYRIGHT 2002 ACS
AN	1993:145294 CAPLUS
DN	118:145294
TI	Possible targets on carcinoma for bMAB retargeting of lymphocyte or drug cytotoxicity
AU	Canevari, Silvana; Mezzanatica, Delia; Menard, Sylvie; Ferrini, Silvano; Moretta, Lorenzo; Colnaghi, Maria Ines
CS	Ist. Naz. Tumori, Milan, I-20133, Italy
SO	Int. J. Cancer, Suppl. (1992), 7(Bispecific Antibodies Targeted Cell Cytotoxic.), 42-4
CO	CODEN: IJSUEZ; ISSN: 0898-6924
DT	Journal; General Review
LA	English
L5	ANSWER 12 OF 35 CAPLUS COPYRIGHT 2002 ACS
AN	1993:95207 CAPLUS
DN	118:95207
TI	The efficiency of cell targeting by recombinant retroviruses depends on the nature of the receptor and the composition of the artificial cell-virus linker
AU	Piethe-Julian, Maryse; Roux, Pierre; Carillo, Serge; Jeanneux, Philippe; Etienne-Julian, Maryse; Rous, Pierre; Montpellier II Sci. Tech. Languedoc, Montpellier, Lab. Biol. Mol., Univ. Montpellier
CS	34095, Fr.
SO	J. Gen. Virol. (1992), 73(12), 3251-5
CO	CODEN: JGVIAV; ISSN: 0022-1317
DT	Journal
LA	English
L5	ANSWER 13 OF 35 CAPLUS COPYRIGHT 2002 ACS
AN	1991:205190 CAPLUS
DN	114:205190
TI	Two distinct monoclonal antibodies raised against mouse .beta. nerve growth factor. Generation of bi-specific anti-nerve growth factor anti-horseradish peroxidase antibodies for use in a homogeneous enzyme immunoassay
AU	Kenigsberg, Rhoda L.; Elliott, Peter J.; Cuellar, A. Claudio
CS	Dep. Pharm. Ther., McGill Univ., Montreal, PQ, H3G 1Y6, Can.
SO	J. Immunol. Methods (1991), 136(2), 247-57
CO	CODEN: JIMMBG; ISSN: 0022-1759
DT	Journal

LA English

L5 ANSWER 14 OF 35 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.

AN 94274773 EMBASE

DN 1994274773

TI Induction of tumour cell lysis by a bispecific antibody and CD3.

AU Knuth A.; Bernhard H.; Wager E.; Wolfel T.; Karbach J.; Jaggle C.; Strittmatter W.; Meyer zum Buschenfelde K.-H.

CS II Medizinische Klinik, Hamatologie/Ontologie, Krankenhaus Nordwest, Steinbacher Hohl 2-26, D-60488 Frankfurt a. Main, Germany

SO European Journal of Cancer Part A: General Topics, (1994) 30/8 (1103-1107) CODEN: EJCTEA

ISSN: 0959-8049

CY United Kingdom

DT Journal: Article

FS 016 Cancer

LA English

SL Immunology, Serology and Transplantation

L5 ANSWER 15 OF 35 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.

AN 94236664 EMBASE

DN 1994236664

TI Pharmacological modulation of peptide growth factor receptor expression on tumor cells as a basis for cancer therapy.

AU Tagliaferri P.; Caraglia M.; Muraro R.; Pinto A.; Budillon A.; Zagonel V.; Bianco A.R.

CS Cattedra di Oncologia Medica, Facolta di Medicina, Universita 'Federico II' di Napoli, via S. Pansini 5, 80131 Naples, Italy

SO Anti-Cancer Drugs, (1994) 5/4 (379-393)

ISSN: 0959-4973 CODEN: ANTDEV

CY United Kingdom

DT Journal: General Review

FS 016 Cancer

LA English

SL Immunology, Serology and Transplantation

L5 ANSWER 16 OF 35 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.

AN 94011887 EMBASE

DN 1994011887

TI Targeting of T lymphocytes against EGF-receptor+ tumor cells by bispecific monoclonal antibodies: Requirement of CD3 molecule cross-linking for T-cell activation.

AU Ferrini S.; Cambiaggi A.; Sforzini S.; Marciano S.; Canevari S.; Mezzanica D.; Colnaghi M.I.; Grossi C.E.; Moretta L.

CS Ist. Naz. per la Ricerca sul Cancro, V.le Benedetto XV 10, 16132 Genoa, Italy

SO International Journal of Cancer, (1993) 55/6 (931-937)

ISSN: 0020-7136 CODEN: IJCNAM

CY United States

DT Journal: Article

FS 016 Cancer

LA English

SL Immunology, Serology and Transplantation

L5 ANSWER 17 OF 35 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.

AN 93014179 EMBASE

DN 1993014179

TI The efficiency of cell targeting by recombinant retroviruses depends on the nature of the receptor and the composition of the artificial cell-virus linker.

AU Etienne-Julian M.; Roux P.; Carillo S.; Jeanteur P.; Piechaczyk M.

CS Laboratoire de Biologie Moleculaire, IFR CNRS 1191 Genetique Moleculaire, Universite Montpellier II, Place E. Bataillon, 34095 Montpellier Cedex 05, France

SO Journal of General Virology, (1992) 73/12 (3251-3255)

ISSN: 0022-1317 CODEN: JGVIAV

CY United Kingdom

DT Journal: Article

FS 004 Microbiology

LA English

SL English

L5 ANSWER 18 OF 35 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.

AN 92358961 EMBASE

DN 1992358961

TI Possible targets on carcinoma for bMAB retargeting of lymphocyte or drug cytotoxicity.

AU Canevari S.; Mezzanica D.; Menard S.; Ferrini S.; Moretta L.; Colnaghi M.I.

CS Oncologia Sperimentale E, Istituto Nazionale Tumori, Via Venezian 1, I-20133, Italy

SO International Journal of Cancer, (1992) 7 (42-44)

ISSN: 0020-7136 CODEN: IJCNAM

CY United States

DT Journal: Conference Article

FS 016 Cancer

LA English

SL Drug Literature Index

L5 ANSWER 19 OF 35 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.

AN 92321497 EMBASE

DN 1992321497

TI Biology and therapy with biologic agents in gynecologic cancer.

AU Wiener J.R.; Berchuck A.; Bast Jr. R.C.

CS Department of Obstetrics/Gynecology, Department of Surgery, Box 3843, Durham, NC 27710, United States

SO Current Opinion in Oncology, (1992) 4/5 (946-954)

ISSN: 1040-8746 CODEN: CUOOE8

CY United States

DT Journal: General Review

FS 010 Obstetrics and Gynecology

LA English

SL Cancer

L5 ANSWER 20 OF 35 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.

AN 92021180 EMBASE

DN 1992021180

TI Development of humanized bispecific antibodies reactive with cytotoxic lymphocytes and tumor cells overexpressing the HER2 protooncogene.

AU Shalaby M.R.; Shepard H.M.; Presta L.; Rodrigues M.L.; Beverley P.C.L.; Feldmann M.; Carter P.

CS Department of Cell Biology, Genentech, Inc., 460 Point San Bruno Boulevard, South San Francisco, CA 94080, United States

SO Journal of Experimental Medicine, (1992) 175/1 (217-225)

ISSN: 0022-1007 CODEN: JEMEAJ

CY United States  
DT Journal; Article  
FS 016 Cancer  
022 Human Genetics  
026 Immunology, Serology and Transplantation  
037 Drug Literature Index  
LA English  
SL English

L5 ANSWER 21 OF 35 CANCERLIT  
AN 95383036 CANCERLIT  
DN 95383036  
TI Induction of tumour cell lysis by a bispecific antibody and CD3.

AU Knuth A; Bernhard H; Jager E; Wolfel T; Karbach J; Jaggle C; Strittmatter W; Meyer zum Buschenfelde K H  
CS II Medizinische Klinik, Hamatologie/Oncologie, Krankenhaus Nordwest, Frankfurt a. Main, Germany.  
SO EUROPEAN JOURNAL OF CANCER. (1994). 30A (8), pp. 1103-7.  
Journal code: ARV. ISSN: 0959-8049.  
DT Journal; Article; (JOURNAL ARTICLE)  
FS MEDL; L; Priority Journals; Cancer Journals  
LA English  
OS MEDLINE 95383036  
EM 199511

L5 ANSWER 22 OF 35 CANCERLIT  
AN 94699308 CANCERLIT  
DN 94699308  
TI Immunology and molecular biology of Hodgkin's and Reed-Sternberg cells: implications for the pathogenesis and therapeutic perspectives of Hodgkin's disease (Meeting abstract).  
AU Trumper L; Daus H; Pfundschoh M  
CS Med. Univ.-Klinik I, D-6650 Homburg, Germany.  
SO Non-serial. (1993). Molecular Biology of Hematopoiesis, 8th Symposium. July 9-13, 1993, Basel, Switzerland.  
DT Journal; Article; (JOURNAL ARTICLE)  
FS ICDB  
LA English  
EM 199411

L5 ANSWER 23 OF 35 CANCERLIT  
AN 94075058 CANCERLIT  
DN 94075058  
TI Targeting of T lymphocytes against EGF-receptor+ tumor cells by bispecific monoclonal antibodies: requirement of CD3 molecule cross-linking for T-cell activation.  
AU Ferrini S; Cambiaggi A; Sforzini S; Marciano S; Canevari S; Mezzanzanica D; Colnaghi M I; Grossi C E; Moretta L  
CS Istituto Nazionale per la Ricerca sul Cancro, Genoa, Italy.  
SO INTERNATIONAL JOURNAL OF CANCER. (1993). Vol. 55, No. 6, pp. 931-7.  
Journal code: GQU. ISSN: 0020-7136.  
DT Journal; Article; (JOURNAL ARTICLE)  
FS MEDL; L; Priority Journals; Cancer Journals  
LA English  
OS MEDLINE 94075058  
EM 199402

L5 ANSWER 24 OF 35 CANCERLIT  
AN 93107863 CANCERLIT  
DN 93107863  
TI The efficiency of cell targeting by recombinant retroviruses depends on the nature of the receptor and the composition of the artificial

cell-virus linker.  
AU Etienne-Julian M; Roux P; Carillo S; Jeanteur P; Piechaczyk M  
CS Laboratoire de Biologie Moleculaire, URA CNRS 1191 Genetique Moleculaire, Universite Montpellier II Sciences et Techniques du Languedoc, France.  
SO JOURNAL OF GENERAL VIROLOGY. (1992). Vol. 73, Pt. 12, pp. 3251-5.  
Journal code: ISB. ISSN: 0022-1317.  
DT Journal; Article; (JOURNAL ARTICLE)  
FS MEDL; L; Priority Journals; Cancer Journals  
LA English  
OS MEDLINE 93107863  
EM 199302

L5 ANSWER 25 OF 35 CANCERLIT  
AN 93090873 CANCERLIT  
DN 93090873  
TI Biology and therapy with biologic agents in gynecologic cancer.  
AU Wiener J R; Berchuck A; Bast R C Jr  
CS Department of Obstetrics and Gynecology, Duke University Medical Center, Durham, NC 27710.  
SO CURRENT OPINION IN ONCOLOGY. (1992). Vol. 4, No. 5, pp. 946-54.  
Journal code: ALV. ISSN: 1040-8746.  
DT Journal; Article; (JOURNAL ARTICLE)  
FS General Review; (REVIEW)  
LA (REVIEW, TUTORIAL)  
OS MEDL; L; Priority Journals  
EM MEDLINE 93090873

L5 ANSWER 26 OF 35 CANCERLIT  
AN 92113462 CANCERLIT  
DN 92113462  
TI Development of humanized bispecific antibodies reactive with cytotoxic lymphocytes and tumor cells overexpressing the HER2 protooncogene.  
AU Shalaby M R; Shepard H M; Presta L; Rodrigues M L; Beverley P C; Feldmann M; Carter P  
CS Department of Cell Biology, Genentech, Inc., South San Francisco, California 94080.  
SO JOURNAL OF EXPERIMENTAL MEDICINE. (1992). Vol. 175, No. 1, pp. 217-25.  
Journal code: I2V. ISSN: 0022-1007.  
DT Journal; Article; (JOURNAL ARTICLE)  
FS MEDL; L; Priority Journals; Cancer Journals  
LA English  
OS MEDLINE 92113462  
EM 199203

L5 ANSWER 27 OF 35 CANCERLIT  
AN 91662231 CANCERLIT  
DN 91662231  
TI IMMUNE SYSTEM AND CANCER.  
AU Anonymous  
CS No affiliation given.  
SO Non-serial. (1989). Immune System and Cancer. Tokyo, 1988. Hamaoka T et al, eds. Philadelphia, Taylor and Francis, 347.  
DT Book; (MONOGRAPH)  
FS ICDB  
LA English  
EM 199103

L5 ANSWER 28 OF 35 USPATFULL  
AN 94:64243 USPATFULL  
TI Detection and treatment of infections with immunoconjugates  
IN Goldenberg, M. David, Short Hills, NJ, United States

L5 ANSWER 31 OF 35 USPATFULL  
AN 94:40048 USPATFULL  
TI Interferon-related polypeptides as CR2 ligands and their use for  
modulating immune cell functions  
IN Lernhardt, Waldemar, Solana Beach, CA, United States  
PA California Institute of Biological Research, La Jolla, CA, United States  
(U.S. corporation)  
PI US 5310729 19940510  
AI US 1990-312118 19900420 (7)  
DT Utility  
FS Granted  
LN.CNT 1863  
INCL INCLM: 514/015.000  
INCLM: 514/016.000; 530/327.000; 530/328.000  
NCL INCLM: 514/015.000  
NCLM: 514/016.000; 530/327.000; 530/328.000  
IC [5]  
ICM: A61K037-00  
ICS: A61K037-02; C07K005-00; C07K007-00  
EXF 514/15; 514/14; 514/16; 514/13; 514/12; 530/328; 530/327; 530/300  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 32 OF 35 USPATFULL  
AN 94:5810 USPATFULL  
TI Activated protein C polypeptides and anti-peptide antibodies,  
diagnostic methods and systems for inhibiting activated protein C  
IN Griffin, John H., Del Mar, CA, United States  
PA Mesters, Rolf M., La Jolla, CA, United States  
The Scripps Research Institute, La Jolla, CA, United States (U.S.  
corporation)  
PI US 5279956 19940118  
AI US 1991-720189 19910624 (7)  
DT Utility  
FS Granted  
LN.CNT 2944  
INCL INCLM: 435/183.000  
INCLM: 435/692.000; 435/090.210; 435/240.270; 436/536.000; 424/085.800;  
INCLM: 514/012.000; 530/328.000; 530/326.000; 530/384.000; 530/380.000;  
530/381.000; 530/382.000; 530/383.000; 530/389.300; 530/388.260;  
530/388.250; 530/324.000; 530/412.000  
NCL INCLM: 435/183.000  
NCLM: 424/139.100; 424/145.100; 424/158.100; 435/069.200; 435/070.210;  
436/536.000; 514/012.000; 530/300.000; 530/324.000; 530/326.000;  
530/328.000; 530/381.000; 530/382.000; 530/383.000; 530/384.000;  
530/387.900; 530/388.250; 530/388.260; 530/389.300; 530/412.000  
IC [5]  
ICM: A61K037-02  
ICS: A61K039-00; C12N009-00; C07K015-00  
EXF 424/85.8; 435/69.2; 435/70.21; 435/240.27; 435/536; 435/183; 514/12;  
530/328; 530/326; 530/324; 530/387; 530/380; 530/381; 530/382; 530/383;  
530/384; 530/389.3; 530/308.26; 530/388.25; 530/412; 436/536  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 33 OF 35 USPATFULL  
AN 93:16591 USPATFULL  
TI Hybrid tryptophan aporepressor containing ligand binding sites  
IN Lernhardt, Waldemar, Solana Beach, CA, United States  
Bourdon, Mario, San Diego, CA, United States  
Yoderian, Phil, Ramona, CA, United States  
PA California Institute of Biological Research, La Jolla, CA, United States  
(U.S. corporation)  
PI US 5190873 19930302  
AI US 1991-720222 19910621 (7)  
DT Utility

PI Immunomedics, Morris Plains, NJ, United States (U.S. corporation)  
US 5332567 19940726  
AI US 1993-37659 19930322 (8)  
R11 Continuation of Ser. No. US 1992-840591, filed on 18 Feb 1992, now  
abandoned which is a continuation of Ser. No. US 1989-399566, filed on  
24 Aug 1989, now abandoned  
DT Utility  
FS Granted  
LN.CNT 1460  
INCL INCLM: 424/001.490  
INCLM: 424/002.000; 424/009.000; 424/001.530; 424/136.100; 424/159.100;  
INCLM: 424/164.100; 424/178.100  
NCL INCLM: 424/001.490  
NCLM: 424/001.530; 424/009.341; 424/136.100; 424/159.100; 424/164.100;  
424/178.100  
IC [5]  
ICM: A61K043-00  
ICS: A61K049-00; A61K039-00; G01N001-00  
EXF 424/1.1; 424/2; 424/85.8; 424/9; 424/86; 424/87  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 29 OF 35 USPATFULL  
AN 94:62551 USPATFULL  
TI CR2 ligand compositions and methods for modulating immune cell functions  
IN Lernhardt, Waldemar, Solana Beach, CA, United States  
PA California Institute of Biological Research, La Jolla, CA, United States  
(U.S. corporation)  
PI US 531090 19940719  
AI US 1989-404679 19890908 (7)  
DT Utility  
FS Granted  
LN.CNT 1421  
INCL INCLM: 530/329.000  
INCLM: 530/328.000; 530/327.000  
NCL INCLM: 530/329.000  
NCLM: 530/327.000; 530/328.000  
IC [5]  
ICM: A61K037-00  
ICS: A61K037-02; C07K005-00; C07K007-00  
EXF 530/329; 530/328; 530/327; 530/330; 514/15; 514/16; 514/17; 514/18;  
514/19  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 30 OF 35 USPATFULL  
AN 94:60277 USPATFULL  
TI Carbohydrate-directed cross-linking reagents  
IN Ashkenazi, Avi J., San Mateo, CA, United States  
Chamow, Steven M., San Mateo, CA, United States  
Kogen, Timothy P., Sugar Land, TX, United States  
PA Genentech, Inc., San Francisco, CA, United States (U.S. corporation)  
PI US 5329028 19940712  
AI US 1992-926077 19920805 (7)  
DT Utility  
FS Granted  
LN.CNT 1001  
INCL INCLM: 548/548.000  
INCLM: 548/536.000; 548/547.000; 548/549.000  
NCL INCLM: 548/548.000  
NCLM: 548/546.000; 548/547.000; 548/549.000  
IC [5]  
ICM: C07D207-452  
EXF 548/546; 548/547; 548/548; 548/549  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.



FS Granted  
LN.CNT 2112  
INCL INCLM: 435/177.000  
INCLS: 435/069.700; 435/069.100; 530/350.000; 530/812.000; 930/250.000  
NCL NCLM: 435/177.000  
NCLS: 435/069.100; 435/069.700; 530/350.000; 530/812.000; 930/250.000  
IC [5]  
ICM: C07K013-00  
EXF ICS: C07K017-00; C07K017-02; C12P021-00  
435/917; 435/69.7; 435/69.1; 435/177; 530/350  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 34-OF 35 USPATFULL  
AN 92-102901 USPATFULL  
TI Monoclonal antibody to novel antigen associated with human tumors  
IN Hellstrom, Ingegerd, Seattle, WA, United States  
Hellstrom, Karl E., Seattle, WA, United States  
Marquardt, Hans, Mercer Island, WA, United States  
PA Oncogen, Seattle, WA, United States (U.S. corporation)  
PI US 5171665  
AI US 1989-339142 19921215  
DT Utility 19890417 (7)  
FS Granted  
LN.CNT 1173  
INCL INCLM: 435/007.230  
INCLS: 435/007.900; 435/172.200; 435/240.270; 436/548.000; 436/813.000;  
436/064.000; 530/387.700; 530/388.800; 530/388.850  
NCL NCLM: 435/007.230  
NCLS: 435/007.900; 435/329.000; 435/344.100; 436/064.000; 436/548.000;  
436/813.000; 530/387.700; 530/388.800; 530/388.850  
IC [5]  
ICM: G01N033-574  
EXF ICS: C12P021-08; C07K015-28  
435/723; 435/172.2; 435/240.27; 435/7.9; 436/548; 436/813; 436/64;  
530/387; 530/387.7; 530/388.8; 530/388.85  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 35 OF 35 USPATFULL  
AN 92-61852 USPATFULL  
TI Monoclonal antibody to novel antigen associated with human tumors  
IN Hellstrom, Karl E., Seattle, WA, United States  
Hellstrom, Ingegerd, Seattle, WA, United States  
Marquardt, Hans, Mercer Island, WA, United States  
Yoneyama, Yoshitaka, Bellevue, WA, United States  
PA Oncogen Limited Partnership, Seattle, WA, United States (U.S. corporation)  
PI US 5134075 19920728  
AI US 1989-312640 19890217 (7)  
DT Utility  
FS Granted  
LN.CNT 1097  
INCL INCLM: 530/387.300  
INCLS: 435/070.210; 435/172.200; 530/387.900; 530/828.000; 530/388.850;  
530/388.150; 530/391.300  
NCL NCLM: 530/387.300  
NCLS: 435/070.210; 435/329.000; 435/344.100; 530/387.900; 530/388.150;  
530/388.850; 530/391.300; 530/828.000  
IC [5]  
ICM: C12N005-00  
ICS: C07K015-28  
EXF 530/387; 530/828; 435/172.2; 435/240.26; 435/240.27; 435/972; 435/70.21  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d his  
e FILE 'HOME' ENTERED AT 13:35:21 ON 16 MAY 2002)  
FILE 'MEDLINE, CAPLUS, EMBASE, CANCERLIT, USPATFULL' ENTERED AT 13:35:54  
ON 16 MAY 2002  
L1 2715 S BISPECIFIC? AND MOLECULE?  
L2 2663 S ANTIBOD? AND L1  
L3 719 S L2 AND GROWTH FACTOR  
L4 458538 S L3 AND CHIMER? OR FUSION?  
L5 35 S L3 NOT PY=>1995  
=> s fusion? molecule?  
L6 720 FUSION? MOLECULE?  
=> s antibody? and L6  
L7 470 ANTIBOD? AND L6  
=> s l7 and growth factor?  
L8 4 FILES SEARCHED...  
225 L7 AND GROWTH FACTOR?  
=> s l8 not PY=>1995  
L9 11 L8 NOT PY=>1995  
=> d l9 1-11  
L9 ANSWER 1 OF 11 MEDLINE  
AN 92399282 MEDLINE  
DN 92399282 PubMed ID: 1381944  
TI Diminution of antibodies directed against tumor cell surface  
epitopes: a single chain Fv fusion molecule  
specifically recognizes the extracellular domain of the c-erbB-2 receptor.  
AU Wels, W.; Harwerth, I. M.; Hynes, N. E.; Groner, B.  
CS Friedrich Miescher Institute, Basel, Switzerland.  
SO JOURNAL OF STEROID BIOCHEMISTRY AND MOLECULAR BIOLOGY, (1992 Sep) 43 (1-3)  
1-7.  
Journal code: AX4; 9015483. ISSN: 0960-0760.  
CY ENGLAND: United Kingdom  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199210  
ED Entered STN: 19921106  
Last Updated on STN: 20000303  
Entered Medline: 19921022  
L9 ANSWER 2 OF 11 CAPLUS COPYRIGHT 2002 ACS  
AN 1992:589835 CAPLUS  
DN 117:189835  
TI Diminution of antibodies directed against tumor cell surface  
epitopes: a single chain Fv fusion molecule  
specifically recognizes the extracellular domain of the c-erbB-2 receptor  
AU Wels, W.; Harwerth, I. M.; Hynes, N. E.; Groner, B.  
CS Friedrich Miescher Inst., Basel, 4002, Switz.  
SO J. Steroid Biochem. Mol. Biol. (1992), 43(1-3), 1-7  
CODEN: JSBBE2; ISSN: 0960-0760  
DT Journal  
LA English  
L9 ANSWER 3 OF 11 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.  
AN 92275712 EMBASE

DN 1992275712  
TI Diminution of antibodies directed against tumor cell surface epitopes: A single chain Fv fusion molecule specifically recognizes the extracellular domain of the c-erbB-2 receptor. Wels W.; Harwerth I.M.; Hynes N.E.; Groner B.; Friedrich Miescher Institute, P.O. Box 2543, 4002 Basel, Switzerland  
CS Journal of Steroid Biochemistry and Molecular Biology, (1992) 43/1-3 (1-7).  
SO ISSN: 0960-0760 CODEN: JSBBEZ  
CY United Kingdom  
DT Journal: Conference Article  
FS 016 Cancer  
LA English  
SL English

L9 ANSWER 4 OF 11 CANCERLIT  
AN 92399282 CANCERLIT  
DN 92399282  
TI Diminution of antibodies directed against tumor cell surface epitopes: a single chain Fv fusion molecule specifically recognizes the extracellular domain of the c-erbB-2 receptor. Wels W.; Harwerth I.M.; Hynes N.E.; Groner B.; Friedrich Miescher Institute, Basel, Switzerland.  
CS JOURNAL OF STEROID BIOCHEMISTRY AND MOLECULAR BIOLOGY, (1992). Vol. 43, No. 1-3, pp. 1-7.  
DT Journal code: AX4. ISSN: 0960-0760.  
FS Journal: Article; (JOURNAL ARTICLE)  
LA MEDL: L; Priority Journals; Cancer Journals  
OS English  
EM MEDLINE 92399282  
199211

L9 ANSWER 5 OF 11 USPATFULL  
AN 94:57604 USPATFULL  
TI Treatment of accelerated atherosclerosis with interleukin-2 receptor targeted molecules  
IN Miller, D. Douglas, 7295 Greenway Ave., University City, MO, United States 63130  
PI US 5326559 19940705  
AI US 1991-701219 19910516 (7)  
DT Utility  
FS Granted  
LN.CNT 738  
INCL INCLM: 424/085.200  
INCLM: 435/069.500; 435/069.700; 435/070.210; 514/002.000; 514/021.000; 514/824.000; 935/109.000; 935/107.000; 935/109.000; 935/107.000  
NCLM: 424/085.200  
NCLM: 424/144.100; 424/183.100; 435/069.500; 435/069.700; 435/070.210; 514/002.000; 514/021.000; 514/824.000  
IC [5]  
ICM: A61K037-02  
EXF 424/85.1; 424/85.2; 424/85.8; 424/85.91; 435/69.5; 435/69.52; 435/69.7; 435/70.21; 514/824; 514/2; 514/8; 514/21; 935/106-107; 935/109  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 6 OF 11 USPATFULL  
AN 94:53387 USPATFULL  
TI Cytokine and bioassay therefor  
IN Martin, Michael, West Brunswick, Australia  
Novotny, Jurgen, Ulm Donau, Germany, Federal Republic of  
Boyd, Andrew, Ascot Vale, Australia  
Nicola, Nicos A., Regent, Australia  
Welch, Karen, Vermont, Australia

PA McKinstry, William, Northcote, Australia  
Amrad Corporation Limited, Victoria, United States (non-U.S. corporation)  
PI US 5322787 19940621  
AI US 1992-876480 19920430 (7)  
DT Utility  
FS Granted  
LN.CNT 645  
INCL INCLM: 435/240.200  
INCLM: 435/029.000; 435/240.100  
NCLM: 435/372.000  
NCLM: 435/029.000  
IC [5]; C120001-02  
EXF ICM: 435/29; 435/240.2; 435/240.21  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 7 OF 11 USPATFULL  
AN 94:44736 USPATFULL  
TI Therapeutic interleukin-2-antibody based fusion proteins  
IN Fell, Jr., Henry P., Redmond, WA, United States  
Gayle, Margit A., Woodinville, WA, United States  
PA Oncogen, Seattle, WA, United States (U.S. corporation)  
PI US 5314995 19940524  
AI US 1990-468390 19900122 (7)  
DT Utility  
FS Granted  
LN.CNT 661  
INCL INCLM: 530/351.000  
INCLM: 530/387.100; 530/387.300; 530/387.700; 530/388.300; 530/388.400; 530/388.500; 530/388.600; 530/388.800; 530/388.850; 530/391.700; 530/391.900; 435/069.500; 435/069.700; 435/070.210; 424/085.100; 424/085.200; 424/085.910; 935/047.000  
NCLM: 530/351.000  
NCLM: 424/085.100; 424/085.200; 424/134.100; 424/800.000; 435/069.500; 435/069.520; 435/070.210; 435/070.210; 530/388.300; 530/388.400; 530/388.500; 530/387.300; 530/387.700; 530/388.800; 530/391.700; 530/391.900  
IC [5]  
ICM: C07K013-00  
EXF 530/387; 530/389-391; 530/808; 530/810; 530/351; 530/387.1; 530/387.3; 530/387.7; 530/388.3-388.6; 530/388.8; 530/388.85; 530/391.7; 530/391.9; 530/866; 530/867; 435/69.5; 435/69.52; 435/69.7; 435/70.2; 435/70.21; 935/47; 424/85.8; 424/85.1; 424/85.2; 424/85.91  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 8 OF 11 USPATFULL  
AN 94:20081 USPATFULL  
TI Peptide and protein fusions to thioresoxin and thioresoxin-like molecules  
IN McCoy, John, Reading, MA, United States  
LaValle, Edward R., Tewksbury, MA, United States  
PA Genetics Institute, Inc., Cambridge, MA, United States (U.S. corporation)  
PI US 5292646 19940308  
AI US 1992-921848 19920728 (7)  
RLI Continuation-in-part of Ser. No. US 1991-745382, filed on 14 Aug 1991 which is a continuation-in-part of Ser. No. US 1991-652531, filed on 6 Feb 1991, now abandoned  
DT Utility  
FS Granted  
LN.CNT 1565  
INCL INCLM: 435/069.700

INCL: 435/240.100; 435/240.200; 435/243.000; 435/252.300; 435/252.330;  
435/320.100; 435/254.110; 435/254.210; 530/350.000; 536/023.400;  
935/044.000; 935/047.000  
NCLM: 435/069.700  
NCL: 435/243.000; 435/252.300; 435/252.330; 435/254.110; 435/254.200;  
435/320.100; 530/350.000; 536/023.400  
IC [5]  
ICM: C12N001-00  
IGS: C12N005-10; C12N015-62; C12N015-63; C07K013-00  
EXF 435/69.1; 435/69.7; 435/189; 435/252.3; 435/243; 435/240.1; 435/320.1;  
530/350; 536/27; 536/23.4; 935/10; 935/27; 935/72  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 9 OF 11 USPATFULL  
AN 94.15878 USPATFULL  
TI Functional derivatives of ICAM-1 which are substantially capable of  
binding to LFA-1 but are substantially incapable of binding to MAC-1  
IN Diamond, Michael S., Cambridge, MA, United States  
Stanton, Donald E., Chestnut Hill, MA, United States  
Springer, Timothy A., Newton, MA, United States  
PA Center For Blood Research, Inc., Boston, MA, United States (U.S.  
corporation)  
PI US 5288854 19940222  
AI US 1990-618286 19901128 (7)  
DT Utility  
FS Granted  
LN.CNT 2374  
INCL INCLM: 530/395.000  
NCLM: 530/350.000; 530/808.000; 530/827.000; 530/868.000; 424/088.000  
NCL NCLM: 530/395.000  
NCLS: 424/143.100; 424/278.100; 530/350.000; 530/388.220; 530/808.000;  
530/827.000; 530/868.000  
IC [5]  
ICM: C07K009-00  
ICS: A61K037-02  
EXF 530/350; 530/395; 530/402-403; 530/808; 530/827; 530/868; 424/88; 514/2;  
514/12; 514/8; 514/885  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 10 OF 11 USPATFULL  
AN 93.104827 USPATFULL  
TI Peptide and protein fusions to thioredoxin and thioredoxin-like  
molecules  
IN McCoy, John, Reading, MA, United States  
LaValle, Edward R., Tewksbury, MA, United States  
PA Genetics Institute, Inc., Cambridge, MA, United States (U.S.  
corporation)  
PI US 5270181 19931214  
AI US 1991-745382 19910814 (7)  
RLI Continuation-in-part of Ser. No. US 1991-652531, filed on 6 Feb 1991,  
now abandoned  
DT Utility  
FS Granted  
LN.CNT 1404  
INCL INCLM: 435/069.700  
NCLM: 435/320.100; 435/243.000; 435/252.300; 435/252.330; 435/254.110;  
536/023.400; 935/010.000; 935/027.000; 935/006.600; 935/006.900;  
935/072.000; 935/073.000  
NCLM: 435/069.700  
NCLS: 435/243.000; 435/252.300; 435/252.330; 435/254.110; 435/320.100;  
536/023.400  
IC [5]  
ICM: C12P021-02  
ICS: C12N015-11; C12N015-62

EXF 536/27; 435/69.1; 435/69.7; 435/243; 435/240.1; 435/320.1; 435/252.3;  
435/252.33; 435/255; 935/10; 935/27; 935/72  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.  
L9 ANSWER 11 OF 11 USPATFULL  
AN 92.25251 USPATFULL  
TI Method of producing and isolating ICG-binding protein a fusion peptides  
and a vector therefor  
IN Lofdahl, Sven, Uppsala, Sweden  
Uhlen, Mathias, Uppsala, Sweden  
Lindberg, Martin, Uppsala, Sweden  
Sjoquist, John, Uppsala, Sweden  
PA Pharmacia LKB Biotechnology AB, Uppsala, Sweden (non-U.S. corporation)  
PI US 5100788 19920331  
AI US 1988-196846 19880509 (7)  
RLI Continuation of Ser. No. US 1984-667492, filed on 9 Oct 1984, now  
abandoned  
PRAI SE 1983-693 19830209  
DT Utility  
FS Granted  
LN.CNT 2485  
INCL INCLM: 435/069.700  
NCLM: 435/071.200; 435/091.000; 435/172.300; 435/252.300; 435/252.310;  
435/252.330; 435/320.100  
NCL NCLM: 435/069.700  
NCLS: 435/071.200; 435/091.410; 435/252.300; 435/252.310; 435/252.330;  
435/320.100; 435/488.000  
IC [5]  
ICM: C12P021-02  
ICS: C12N015-09; C12N015-11; C12N001-20  
EXF 435/91; 435/172.3; 435/69.1; 435/79.1; 530/300; 530/350  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

> s bispecific? and molecule?  
L1 2715 BISPECIFIC? AND MOLECULE?

=> s antibod? and l1  
L2 2663 ANTIBOD? AND L1

=> s l2 and growth factor  
4 FILES SEARCHED...  
L3 719 L2 AND GROWTH FACTOR

=> s l3 and chimer? or fusion?  
L4 458538 L3 AND CHIMER? OR FUSION?

=> s l3 not py=>1995  
L5 35 L3 NOT PY=>1995

=> d 15 1-35

L5 ANSWER 1 OF 35 MEDLINE  
AN 95383036 MEDLINE  
DN 95383036 PubMed ID: 7654439  
TI Induction of tumour cell lysis by a **bispecific antibody** recognising epidermal **growth factor** receptor (EGFR) and CD3.  
AU Knuth A; Bernhard H; Jager E; Wolfel T; Karbach J; Jaggle C; Strittmatter W; Meyer zum Buschenfelde K H  
CS II Medizinische Klinik, Hamatologie/Onkologie, Krankenhaus Nordwest, Frankfurt a. Main, Germany.  
SO EUROPEAN JOURNAL OF CANCER, (1994) 30A (8) 1103-7.  
Journal code: ARV; 9005373. ISSN: 0959-8049.  
CY ENGLAND: United Kingdom  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199510  
ED Entered STN: 19951013  
Last Updated on STN: 20000303  
Entered Medline: 19951005

L5 ANSWER 2 OF 35 MEDLINE  
AN 94075058 MEDLINE  
DN 94075058 PubMed ID: 8253530  
TI Targeting of T lymphocytes against EGF-receptor+ tumor cells by **bispecific** monoclonal **antibodies**: requirement of CD3 **molecule** cross-linking for T-cell activation.  
AU Ferrini S; Cambiaggi A; Sforzini S; Marciano S; Canevari S; Mezzanzanica D; Colnaghi M I; Grossi C E; Moretta L  
CS Istituto Nazionale per la Ricerca sul Cancro, Genoa, Italy.  
SO INTERNATIONAL JOURNAL OF CANCER, (1993 Dec 2) 55 (6) 931-7.  
Journal code: GQU; 0042124. ISSN: 0020-7136.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199401  
ED Entered STN: 19940203  
Last Updated on STN: 20000303  
Entered Medline: 19940110

L5 ANSWER 3 OF 35 MEDLINE  
AN 93107863 MEDLINE  
DN 93107863 PubMed ID: 1335026  
TI The efficiency of cell targeting by recombinant retroviruses depends on the nature of the receptor and the composition of the artificial

cell-virus linker.

AU Etienne-Julan M; Roux P; Carillo S; Jeanteur P; Piechaczyk M  
CS Laboratoire de Biologie Moleculaire, URA CNRS 1191 Genetique Moleculaire,  
Universite Montpellier II Sciences et Techniques du Languedoc, France.  
SO JOURNAL OF GENERAL VIROLOGY, (1992 Dec) 73 ( Pt 12) 3251-5.  
Journal code: I9B; 0077340. ISSN: 0022-1317.  
CY ENGLAND: United Kingdom  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199301  
ED Entered STN: 19930212  
Last Updated on STN: 20000303  
Entered Medline: 19930125

L5 ANSWER 4 OF 35 MEDLINE  
AN 93090873 MEDLINE  
DN 93090873 PubMed ID: 1457511  
TI Biology and therapy with biologic agents in gynecologic cancer.  
AU Wiener J R; Berchuck A; Bast R C Jr  
CS Department of Obstetrics and Gynecology, Duke University Medical Center,  
Durham, NC 27710.  
SO CURRENT OPINION IN ONCOLOGY, (1992 Oct) 4 (5) 946-54. Ref: 52  
Journal code: A1V; 9007265. ISSN: 1040-8746.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
General Review; (REVIEW)  
(REVIEW, TUTORIAL)  
LA English  
FS Priority Journals  
EM 199301  
ED Entered STN: 19930129  
Last Updated on STN: 19930129  
Entered Medline: 19930108

L5 ANSWER 5 OF 35 MEDLINE  
AN 92113462 MEDLINE  
DN 92113462 PubMed ID: 1346155  
TI Development of humanized **bispecific antibodies**  
reactive with cytotoxic lymphocytes and tumor cells overexpressing the  
HER2 protooncogene.  
AU Shalaby M R; Shepard H M; Presta L; Rodrigues M L; Beverley P C; Feldmann  
M; Carter P  
CS Department of Cell Biology, Genentech, Inc., South San Francisco,  
California 94080.  
SO JOURNAL OF EXPERIMENTAL MEDICINE, (1992 Jan 1) 175 (1) 217-25.  
Journal code: I2V; 2985109R. ISSN: 0022-1007.  
CY United States  
DT Journal; Article; (JOURNAL ARTICLE)  
LA English  
FS Priority Journals  
EM 199202  
ED Entered STN: 19920308  
Last Updated on STN: 20000303  
Entered Medline: 19920214

L5 ANSWER 6 OF 35 CAPLUS COPYRIGHT 2002 ACS  
AN 1994:653350 CAPLUS  
DN 121:253350  
TI Induction of tumor cell lysis by a **bispecific antibody**  
recognizing epidermal **growth factor** receptor (EGFR)  
and CD3  
AU Knuth, A.; Bernhard, H.; Jaeger, E.; Woelfel, T.; Karch, J.; Jaeggli,  
C.; Strittmatter, W.; Meyer zum Bueschenfelde, K.-H.

CS Germany  
SO Eur. J. Cancer, Part A (1994), 30A(8), 1103-7  
CODEN: EJCTEA  
DT Journal  
LA English

L5 ANSWER 7 OF 35 CAPLUS COPYRIGHT 2002 ACS  
AN 1994:450110 CAPLUS  
DN 121:50110  
TI Method for preventing or treating liver disease  
IN Schwall, Ralph  
PA Genentech, Inc., USA  
SO PCT-Int. Appl., 34 pp.  
CODEN: PIXXD2

DT Patent  
LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9409809	A1	19940511	WO 1993-US9885	19931014
	W: AU, CA, JP, NZ				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	AU 9454054	A1	19940524	AU 1994-54054	19931014
PRAI	US 1992-968784		19921030		
	WO 1993-US9885		19931014		

L5 ANSWER 8 OF 35 CAPLUS COPYRIGHT 2002 ACS  
AN 1994:432944 CAPLUS  
DN 121:32944  
TI The LFA-1/ICAM cell adhesion pathway is involved in tumor-cell lysis mediated by **bispecific** monoclonal-**antibody**-targeted T lymphocytes

AU Ferrini, Silvano; Sforzini, Sabrina; Cambiaggi, Anna; Poggi, Alessandro; Meazza, Raffaella; Canevari, Silvana; Colnaghi, Maria Ines; Moretta, Lorenzo

CS Ist. Naz. per la Ric. sul Cancro, Genoa, 16132/10, Italy  
SO Int. J. Cancer (1994), 56(6), 846-52  
CODEN: IJCNAW; ISSN: 0020-7136

DT Journal  
LA English

L5 ANSWER 9 OF 35 CAPLUS COPYRIGHT 2002 ACS  
AN 1994:214901 CAPLUS  
DN 120:214901  
TI Targeting of T lymphocytes against EGF-receptor+ tumor cells by **bispecific** monoclonal **antibodies**: requirement of CD3 molecule crosslinking for T-cell activation

AU Ferrini, Silvano; Cambiaggi, Anna; Sforzini, Sabrina; Marciano, Sabrina; Canevari, Silvana; Mezzanzanica, Delia; Colnaghi, Maria Ines; Grossi, Carlo Enrico; Moretta, Lorenzo

CS Ist. Naz. Ric. Cancro, Genoa, Italy  
SO Int. J. Cancer (1993), 55(6), 931-7  
CODEN: IJCNAW; ISSN: 0020-7136

DT Journal  
LA English

L5 ANSWER 10 OF 35 CAPLUS COPYRIGHT 2002 ACS  
AN 1993:167190 CAPLUS  
DN 118:167190

TI Development of humanized **bispecific antibodies** reactive with cytotoxic lymphocytes and tumor cells overexpressing the HER2 protooncogene

AU Shalaby, M. Refaat; Shepard, H. Michael; Presta, Len; Rodrigues, Maria L.; Beverley, Peter C. L.; Feldmann, Marc; Carter, Paul

CS Dep. Cell Biol., Genentech, Inc., South San Francisco, CA, 94080, USA  
SO J. Exp. Med. (1992), 175(1), 217-25  
CODEN: JEMEAV; ISSN: 0022-1007  
DT Journal  
LA English

L5 ANSWER 11 OF 35 CAPLUS COPYRIGHT 2002 ACS  
AN 1993:145294 CAPLUS  
DN 118:145294  
TI Possible targets on carcinoma for bMAb retargeting of lymphocyte or drug cytotoxicity  
AU Canevari, Silvana; Mezzanzanica, Delia; Menard, Sylvie; Ferrini, Silvano; Moretta, Lorenzo; Colnaghi, Maria Ines  
CS Ist. Naz. Tumori, Milan, I-20133, Italy  
SO Int. J. Cancer, Suppl. (1992), 7(Bispecific Antibodies Targeted Cell Cytotoxic.), 42-4  
CODEN: IJSUEZ; ISSN: 0898-6924  
DT Journal; General Review  
LA English

L5 ANSWER 12 OF 35 CAPLUS COPYRIGHT 2002 ACS  
AN 1993:95207 CAPLUS  
DN 118:95207  
TI The efficiency of cell targeting by recombinant retroviruses depends on the nature of the receptor and the composition of the artificial cell-virus linker  
AU Etienne-Julan, Maryse; Roux, Pierre; Carillo, Serge; Jeanteur, Philippe; Piechaczyk, Marc  
CS Lab. Biol. Mol., Univ. Montpellier II Sci. Tech. Languedoc, Montpellier, 34095, Fr.  
SO J. Gen. Virol. (1992), 73(12), 3251-5  
CODEN: JGVIAV; ISSN: 0022-1317  
DT Journal  
LA English

L5 ANSWER 13 OF 35 CAPLUS COPYRIGHT 2002 ACS  
AN 1991:205190 CAPLUS  
DN 114:205190  
TI Two distinct monoclonal **antibodies** raised against mouse .beta. nerve **growth factor**. Generation of bi-specific anti-nerve **growth factor** anti-horseradish peroxidase **antibodies** for use in a homogeneous enzyme immunoassay  
AU Kenigsberg, Rhoda L.; Elliott, Peter J.; Cuello, A. Claudio  
CS Dep. Pharm. Ther., McGill Univ., Montreal, PQ, H3G 1Y6, Can.  
SO J. Immunol. Methods (1991), 136(2), 247-57  
CODEN: JIMMBG; ISSN: 0022-1759  
DT Journal  
LA English

L5 ANSWER 14 OF 35 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.  
AN 94274773 EMBASE  
DN 1994274773  
TI Induction of tumour cell lysis by a **bispecific antibody** recognising epidermal **growth factor** receptor (EGFR) and CD3.  
AU Knuth A.; Bernhard H.; Jager E.; Wolfel T.; Karbach J.; Jaggle C.; Strittmatter W.; Meyer zum Buschenfelde K.-H.  
CS II Medizinische Klinik, Hamatologie/Onkologie, Krankenhaus Nordwest, Steinbacher Hohl 2-26, D-60488 Frankfurt a. Main, Germany  
SO European Journal of Cancer Part A: General Topics, (1994) 30/8 (1103-1107).  
ISSN: 0959-8049 CODEN: EJCTEA  
CY United Kingdom  
DT Journal; Article

FS 016 Cancer  
 026 Immunology, Serology and Transplantation  
 LA English  
 SL English

L5 ANSWER 15 OF 35 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.  
 AN 94236664 EMBASE  
 DN 1994236664  
 TI Pharmacological modulation of peptide **growth factor**  
 receptor expression on tumor cells as a basis for cancer therapy.  
 AU Tagliaferri P.; Caraglia M.; Muraro R.; Pinto A.; Budillon A.; Zagonel V.;  
 Bianco A.R.  
 CS Cattedra di Oncologia Medica, Facolta di Medicina, Universita 'Federico  
 II' di Napoli, via S Pansini 5,80131 Naples, Italy  
 SO Anti-Cancer Drugs, (1994) 5/4 (379-393).  
 ISSN: 0959-4973 CODEN: ANTDEV  
 CY United Kingdom  
 DT Journal; General Review  
 FS 016 Cancer  
 026 Immunology, Serology and Transplantation  
 030 Pharmacology  
 037 Drug Literature Index  
 LA English  
 SL English

L5 ANSWER 16 OF 35 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.  
 AN 94011887 EMBASE  
 DN 1994011887  
 TI Targeting of T lymphocytes against EGF-receptor+ tumor cells by  
**bisppecific monoclonal antibodies**: Requirement of CD3  
**molecule** cross-linking for T-cell activation.  
 AU Ferrini S.; Cambiaggi A.; Sforzini S.; Marciano S.; Canevari S.;  
 Mezzanzanica D.; Colnaghi M.I.; Grossi C.E.; Moretta L.  
 CS Ist. Naz. per la Ricerca sul Cancro, V.le Benedetto XV 10,16132 Genoa,  
 Italy  
 SO International Journal of Cancer, (1993) 55/6 (931-937).  
 ISSN: 0020-7136 CODEN: IJCNAW  
 CY United States  
 DT Journal; Article  
 FS 016 Cancer  
 026 Immunology, Serology and Transplantation  
 LA English  
 SL English

L5 ANSWER 17 OF 35 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.  
 AN 93014179 EMBASE  
 DN 1993014179  
 TI The efficiency of cell targeting by recombinant retroviruses depends on  
 the nature of the receptor and the composition of the artificial  
 cell-virus linker.  
 AU Etienne-Julan M.; Roux P.; Carillo S.; Jeanteur P.; Piechaczyk M.  
 CS Laboratoire de Biologie Moleculaire, URA CNRS 1191 Genetique Moleculaire,  
 Universite Montpellier II, Place E Bataillon,34095 Montpellier Cedex 05,  
 France  
 SO Journal of General Virology, (1992) 73/12 (3251-3255).  
 ISSN: 0022-1317 CODEN: JGVIAW  
 CY United Kingdom  
 DT Journal; Article  
 FS 004 Microbiology  
 LA English  
 SL English

L5 ANSWER 18 OF 35 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.  
 AN 92358961 EMBASE



DN 1992358961  
 TI Possible targets on carcinoma for bMAb retargeting of lymphocyte or drug cytotoxicity.  
 AU Canevari S.; Mezzanzanica D.; Menard S.; Ferrini S.; Moretta L.; Colnaghi M.I.  
 CS Oncologia Sperimentale E, Istituto Nazionale Tumori, Via Venezian 1, I-20133, Italy  
 SO International Journal of Cancer, (1992) -/SUPPL. 7 (42-44).  
 ISSN: 0020-7136 CODEN: IJCNAW  
 CY United States  
 DT Journal; Conference Article  
 FS 016 Cancer  
 026 Immunology, Serology and Transplantation  
 037 Drug Literature Index  
 LA English  
 SL English

L5 ANSWER 19 OF 35 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.  
 AN 92321497 EMBASE  
 DN 1992321497

TI Biology and therapy with biologic agents in gynecologic cancer.  
 AU Wiener J.R.; Berchuck A.; Bast Jr. R.C.  
 CS Department of Obstetrics/Gynecology, Department of Surgery, Box 3843, Durham, NC 27710, United States  
 SO Current Opinion in Oncology, (1992) 4/5 (946-954).  
 ISSN: 1040-8746 CODEN: CUOOE8  
 CY United States  
 DT Journal; General Review  
 FS 010 Obstetrics and Gynecology  
 016 Cancer  
 026 Immunology, Serology and Transplantation  
 037 Drug Literature Index  
 LA English  
 SL English

L5 ANSWER 20 OF 35 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.  
 AN 92021180 EMBASE  
 DN 1992021180

TI Development of humanized **bispecific antibodies** reactive with cytotoxic lymphocytes and tumor cells overexpressing the HER2 protooncogene.  
 AU Shalaby M.R.; Shepard H.M.; Presta L.; Rodrigues M.L.; Beverley P.C.L.; Feldmann M.; Carter P.  
 CS Department of Cell Biology, Genentech, Inc., 460 Point San Bruno Boulevard, South San Francisco, CA 94080, United States  
 SO Journal of Experimental Medicine, (1992) 175/1 (217-225).  
 ISSN: 0022-1007 CODEN: JEMEA  
 CY United States  
 DT Journal; Article  
 FS 016 Cancer  
 022 Human Genetics  
 026 Immunology, Serology and Transplantation  
 037 Drug Literature Index  
 LA English  
 SL English

L5 ANSWER 21 OF 35 CANCERLIT  
 AN 95383036 CANCERLIT  
 DN 95383036

TI Induction of tumour cell lysis by a **bispecific antibody** recognising epidermal **growth factor** receptor (EGFR) and CD3.  
 AU Knuth A; Bernhard H; Jager E; Wolfel T; Karbach J; Jaggle C; Strittmatter W; Meyer zum Buschenfelde K H

CS II Medizinische Klinik, Hamatologie/Onkologie, Krankenhaus Nordwest,  
Frankfurt a. Main, Germany.

SO EUROPEAN JOURNAL OF CANCER, (1994). 30A (8), pp. 1103-7.  
Journal code: ARV. ISSN: 0959-8049.

DT Journal; Article; (JOURNAL ARTICLE)

FS MEDL; L; Priority Journals; Cancer Journals

LA English

OS MEDLINE 95383036

EM 199511

L5 ANSWER 22 OF 35 CANCERLIT

AN 94699308 CANCERLIT

DN 94699308

TI Immunology and molecular biology of Hodgkin's and Reed-Sternberg cells:  
implications for the pathogenesis and therapeutic perspectives of  
Hodgkin's disease (Meeting abstract).

AU Trumper L; Daus H; Pfreundschuh M

CS Med. Univ.-Klinik I, D-6650 Homburg, Germany.

SO Non-serial, (1993). Molecular Biology of Hematopoiesis, 8th Symposium.  
July 9-13, 1993, Basel, Switzerland.

DT Journal; Article; (JOURNAL ARTICLE)

FS ICDB

LA English

EM 199411

L5 ANSWER 23 OF 35 CANCERLIT

AN 94075058 CANCERLIT

DN 94075058

TI Targeting of T lymphocytes against EGF-receptor+ tumor cells by  
**bispecific monoclonal antibodies**: requirement of CD3  
**molecule** cross-linking for T-cell activation.

AU Ferrini S; Cambiaggi A; Sforzini S; Marciano S; Canevari S; Mezzanzanica  
D; Colnaghi M I; Grossi C E; Moretta L

CS Istituto Nazionale per la Ricerca sul Cancro, Genoa, Italy.

SO INTERNATIONAL JOURNAL OF CANCER, (1993). Vol. 55, No. 6, pp. 931-7.  
Journal code: GQU. ISSN: 0020-7136.

DT Journal; Article; (JOURNAL ARTICLE)

FS MEDL; L; Priority Journals; Cancer Journals

LA English

OS MEDLINE 94075058

EM 199402

L5 ANSWER 24 OF 35 CANCERLIT

AN 93107863 CANCERLIT

DN 93107863

TI The efficiency of cell targeting by recombinant retroviruses depends on  
the nature of the receptor and the composition of the artificial  
cell-virus linker.

AU Etienne-Julan M; Roux P; Carillo S; Jeanteur P; Piechaczyk M

CS Laboratoire de Biologie Moleculaire, URA CNRS 1191 Genetique Moleculaire,  
Universite Montpellier II Sciences et Techniques du Languedoc, France.

SO JOURNAL OF GENERAL VIROLOGY, (1992). Vol. 73, Pt. 12, pp. 3251-5.  
Journal code: I9B. ISSN: 0022-1317.

DT Journal; Article; (JOURNAL ARTICLE)

FS MEDL; L; Priority Journals; Cancer Journals

LA English

OS MEDLINE 93107863

EM 199302

L5 ANSWER 25 OF 35 CANCERLIT

AN 93090873 CANCERLIT

DN 93090873

TI Biology and therapy with biologic agents in gynecologic cancer.

AU Wiener J R; Berchuck A; Bast R C Jr

CS Department of Obstetrics and Gynecology, Duke University Medical Center,  
Durham, NC 27710.  
SO CURRENT OPINION IN ONCOLOGY, (1992). Vol. 4, No. 5, pp. 946-54.  
Journal code: A1V. ISSN: 1040-8746.  
DT Journal; Article; (JOURNAL ARTICLE)  
General Review; (REVIEW)  
(REVIEW, TUTORIAL)  
FS MEDL; L; Priority Journals  
LA English  
OS MEDLINE 93090873  
EM 199302

L5 ANSWER 26 OF 35 CANCERLIT  
AN 92113462 CANCERLIT  
DN 92113462  
TI Development of humanized **bispecific antibodies**  
reactive with cytotoxic lymphocytes and tumor cells overexpressing the  
HER2 protooncogene.  
AU Shalaby M R; Shepard H M; Presta L; Rodrigues M L; Beverley P C; Feldmann  
M; Carter P  
CS Department of Cell Biology, Genentech, Inc., South San Francisco,  
California 94080.  
SO JOURNAL OF EXPERIMENTAL MEDICINE, (1992). Vol. 175, No. 1, pp. 217-25.  
Journal code: I2V. ISSN: 0022-1007.  
DT Journal; Article; (JOURNAL ARTICLE)  
FS MEDL; L; Priority Journals; Cancer Journals  
LA English  
OS MEDLINE 92113462  
EM 199203

L5 ANSWER 27 OF 35 CANCERLIT  
AN 91662231 CANCERLIT  
DN 91662231  
TI IMMUNE SYSTEM AND CANCER.  
AU Anonymous  
CS No affiliation given.  
SO Non-serial, (1989). Immune System and Cancer. Tokyo, 1988. Hamaoka T et  
al, eds. Philadelphia, Taylor and Francis, 347.  
DT Book; (MONOGRAPH)  
FS ICDB  
LA English  
EM 199103

L5 ANSWER 28 OF 35 USPATFULL  
AN 94:64243 USPATFULL  
TI Detection and treatment of infections with immunoconjugates  
IN Goldenberg, M. David, Short Hills, NJ, United States  
PA Immunomedics, Morris Plains, NJ, United States (U.S. corporation)  
PI US 5332567 19940726  
AI US 1993-37659 19930322 (8)  
RLI Continuation of Ser. No. US 1992-840591, filed on 18 Feb 1992, now  
abandoned which is a continuation of Ser. No. US 1989-399566, filed on  
24 Aug 1989, now abandoned  
DT Utility  
FS Granted  
LN.CNT 1460  
INCL INCLM: 424/001.490  
INCLS: 424/002.000; 424/009.000; 424/001.530; 424/136.100; 424/159.100;  
424/164.100; 424/178.100  
NCL NCLM: 424/001.490  
NCLS: 424/001.530; 424/009.341; 424/136.100; 424/159.100; 424/164.100;  
424/178.100  
IC [5]  
ICM: A61K043-00

ICS: A61K049-00; A61K039-00; G01N001-00  
EXF 424/1.1; 424/2; 424/85.8; 424/9; 424/86; 424/87  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 29 OF 35 USPATFULL  
AN 94:62551 USPATFULL  
TI CR2 ligand compositions and methods for modulating immune cell functions  
IN Lernhardt, Waldemar, Solana Beach, CA, United States  
PA California Institute of Biological Research, La Jolla, CA, United States  
(U.S. corporation)  
PI US 5331090 19940719  
AI US 1989-404679 19890908 (7)  
DT Utility  
FS Granted  
LN.CNT 1421  
INCL INCLM: 530/329.000  
INCLS: 530/328.000; 530/327.000  
NCL NCLM: 530/329.000  
NCLS: 530/327.000; 530/328.000  
IC [5]  
ICM: A61K037-00  
ICS: A61K037-02; C07K005-00; C07K007-00  
EXF 530/329; 530/328; 530/327; 530/330; 514/15; 514/16; 514/17; 514/18;  
514/19  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 30 OF 35 USPATFULL  
AN 94:60277 USPATFULL  
TI Carbohydrate-directed cross-linking reagents  
IN Ashkenazi, Avi J., San Mateo, CA, United States  
Chamow, Steven M., San Mateo, CA, United States  
Kogan, Timothy P., Sugar Land, TX, United States  
PA Genentech, Inc., San Francisco, CA, United States (U.S. corporation)  
PI US 5329028 19940712  
AI US 1992-926077 19920805 (7)  
DT Utility  
FS Granted  
LN.CNT 1001  
INCL INCLM: 548/548.000  
INCLS: 548/536.000; 548/547.000; 548/549.000  
NCL NCLM: 548/548.000  
NCLS: 548/546.000; 548/547.000; 548/549.000  
IC [5]  
ICM: C07D207-452  
EXF 548/546; 548/547; 548/548; 548/549  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 31 OF 35 USPATFULL  
AN 94:40048 USPATFULL  
TI Interferon-related polypeptides as CR2 ligands and their use for  
modulating immune cell functions  
IN Lernhardt, Waldemar, Solana Beach, CA, United States  
PA California Institute of Biological Research, La Jolla, CA, United States  
(U.S. corporation)  
PI US 5310729 19940510  
AI US 1990-512118 19900420 (7)  
DT Utility  
FS Granted  
LN.CNT 1863  
INCL INCLM: 514/015.000  
INCLS: 514/016.000; 530/327.000; 530/328.000  
NCL NCLM: 514/015.000  
NCLS: 514/016.000; 530/327.000; 530/328.000  
IC [5]

ICM: A61K037-00  
ICS: A61K037-02; C07K005-00; C07K007-00  
EXF 514/15; 514/14; 514/16; 514/13; 514/12; 530/328; 530/327; 530/300  
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 32 OF 35 USPATFULL

AN 94:5810 USPATFULL

TI Activated protein C polypeptides and anti-peptide **antibodies**,  
diagnostic methods and systems for inhibiting activated protein C

IN Griffin, John H., Del Mar, CA, United States

Mesters, Rolf M., La Jolla, CA, United States

PA The Scripps Research Institute, La Jolla, CA, United States (U.S.  
corporation)

PI US 5279956 19940118

AI US 1991-720189 19910624 (7)

DT Utility

FS Granted

LN.CNT 2944

INCL INCLM: 435/183.000

INCLS: 435/692.000; 435/090.210; 435/240.270; 436/536.000; 424/085.800;  
514/012.000; 530/328.000; 530/326.000; 530/384.000; 530/380.000;  
530/381.000; 530/382.000; 530/383.000; 530/389.300; 530/388.260;  
530/388.250; 530/324.000; 530/412.000

NCL NCLM: 435/183.000

NCLS: 424/139.100; 424/145.100; 424/158.100; 435/069.200; 435/070.210;  
436/536.000; 514/012.000; 530/300.000; 530/324.000; 530/326.000;  
530/328.000; 530/381.000; 530/382.000; 530/383.000; 530/384.000;  
530/387.900; 530/388.250; 530/388.260; 530/389.300; 530/412.000

IC [5]

ICM: A61K037-02

ICS: A61K039-00; C12N009-00; C07K015-00

EXF 424/85.8; 435/69.2; 435/70.21; 435/240.27; 435/536; 435/183; 514/12;  
530/328; 530/326; 530/324; 530/387; 530/380; 530/381; 530/382; 530/383;  
530/384; 530/389.3; 530/308.26; 530/388.25; 530/412; 436/536

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 33 OF 35 USPATFULL

AN 93:16591 USPATFULL

TI Hybrid tryptophan aporepressor containing ligand binding sites

IN Lernhardt, Waldemar, Solana Beach, CA, United States

Bourdon, Mario, San Diego, CA, United States

Youderian, Phil, Ramona, CA, United States

PA California Institute of Biological Research, La Jolla, CA, United States  
(U.S. corporation)

PI US 5190873 19930302

AI US 1991-720222 19910621 (7)

DT Utility

FS Granted

LN.CNT 2112

INCL INCLM: 435/177.000

INCLS: 435/069.700; 435/069.100; 530/350.000; 530/812.000; 930/250.000

NCL NCLM: 435/177.000

NCLS: 435/069.100; 435/069.700; 530/350.000; 530/812.000; 930/250.000

IC [5]

ICM: C07K013-00

ICS: C07K017-00; C07K017-02; C12P021-00

EXF 435/91; 435/69.7; 435/69.1; 435/177; 530/350; 530/812; 930/250

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 34 OF 35 USPATFULL

AN 92:102981 USPATFULL

TI Monoclonal **antibody** to novel antigen associated with human  
tumors

IN Hellstrom, Ingegerd, Seattle, WA, United States

Hellstrom, Karl E., Seattle, WA, United States  
 Marquardt, Hans, Mercer Island, WA, United States  
 PA Oncogen, Seattle, WA, United States (U.S. corporation)  
 PI US 5171665 19921215  
 AI US 1989-339142 19890417 (7)  
 DT Utility  
 FS Granted  
 LN.CNT 1173  
 INCL INCLM: 435/007.230  
 INCLS: 435/007.900; 435/172.200; 435/240.270; 436/548.000; 436/813.000;  
 436/064.000; 530/387.700; 530/388.800; 530/388.850  
 NCL NCLM: 435/007.230  
 NCLS: 435/007.900; 435/329.000; 435/344.100; 436/064.000; 436/548.000;  
 436/813.000; 530/387.700; 530/388.800; 530/388.850  
 IC [5]  
 ICM: G01N033-574  
 ICS: C12P021-08; C07K015-28  
 EXF 435/7.23; 435/172.2; 435/240.27; 435/7.9; 436/548; 436/813; 436/64;  
 530/387; 530/387.7; 530/388.8; 530/388.85  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 35 OF 35 USPATFULL  
 AN 92:61852 USPATFULL  
 TI Monoclonal **antibody** to novel antigen associated with human  
 tumors  
 IN Hellstrom, Karl E., Seattle, WA, United States  
 Hellstrom, Ingegerd, Seattle, WA, United States  
 Marquardt, Hans, Mercer Island, WA, United States  
 Yoneyama, Yoshitaka, Bellevue, WA, United States  
 PA Oncogen Limited Partnership, Seattle, WA, United States (U.S.  
 corporation)  
 PI US 5134075 19920728  
 AI US 1989-312640 19890217 (7)  
 DT Utility  
 FS Granted  
 LN.CNT 1097  
 INCL INCLM: 530/387.300  
 INCLS: 435/070.210; 435/172.200; 530/387.900; 530/828.000; 530/388.850;  
 530/388.150; 530/391.300  
 NCL NCLM: 530/387.300  
 NCLS: 435/070.210; 435/329.000; 435/344.100; 530/387.900; 530/388.150;  
 530/388.850; 530/391.300; 530/828.000  
 IC [5]  
 ICM: C12N005-00  
 ICS: C07K015-28  
 EXF 530/387; 530/828; 435/172.2; 435/240.26; 435/240.27; 435/972; 435/70.21  
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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